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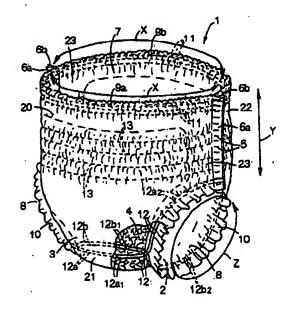
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 Designated Extension States:

 AL LT LV MK RO SI
- (30) Priority: 31.10.2000 JP 2000332677
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 Saunders & Dolleymore,
 9 Rickmansworth Road
 Watford, Herts. WD18 0JU (GB)
- (54) Disposable pull-on wearing article
- (57) A disposable pull-on wearing article 1 folded along a folding zone 14 extending across a crotch region 21 in a transverse direction so that the inner surface of the article 1 comes in contact with itself. The folding zone 14 is formed at a position displaced toward a front

waist region 20 so that a front peripheral edge portion 9a of a waist-opening 7 defined by the front waist region 20 lies at a longitudinally lower position than that of a rear peripheral edge portion 9b of the waist-opening 7 defined by a rear waist region 22.

FIG.I







EUROPEAN SEARCH REPORT

Application Number

Technical September Septem		Citation of document with in		Relevant	CLASSIFICATION	OF THE	
17 June 1998 (1998-06-17)	Category				APPLICATION (
Y	X	17 June 1998 (1998-		1	A61F13/551 A61F13/15		
27 June 1991 (1991-06-27) * column 28, line 34 - column 30, line 2; figures 7,8 * EP 0 452 951 A (UNI CHARM CORP) 23 October 1991 (1991-10-23) * column 4, line 53 - column 6, line 7 * A WO 97 33815 A (MATTIASSON MARINA ; MOELNLYCKE AB (SE)) 18 September 1997 (1997-09-18) * figures * TECHNICAL SEARCHET A61F A41B	Y	- Claims, Tigules +		2			
23 October 1991 (1991–10–23) * column 4, line 53 – column 6, line 7 * WO 97 33815 A (MATTIASSON MARINA ;MOELNLYCKE AB (SE)) 18 September 1997 (1997–09–18) * figures * The present search report has been drawn up for all claims	K.	27 June 1991 (1991- + column 28, line 3	06-27)	2;			
;MOELNLYCKE AB (SE)) 18 September 1997 (1997-09-18) * figures * TECHNICAL A61F A41B The present search report has been drawn up for all ctaims	Y	23 October 1991 (19	91-10-23)			٠	
The present search report has been drawn up for all claims	A	;MOELNLYCKE AB (SE) 18 September 1997 ()	1	; ;	•	
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		·		•			
Place of search Date of completion of the search Examiner		The present search report has	been drawn up for all claims				
		Place of search	Date of completion of the sea	rich	Examiner		
THE HAGUE 20 October 2003 Douskas, K		THE HAGUE	20 October 20	03 Do	uskas, K		
CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention E: earlier patient document, but published on, or after the filing date P: particularly relevant if combined with another document of the same category A: technological background T: theory or principle underlying the invention E: earlier patient document, but published on, or after the filing date D: document cled in the application Cocument cled for other reasons	X:par Y:pa	nticularly relevant if taken alone uticularly relevant if combined with ano cument of the same category	E : earlier pai after the fil her D : document L : document	ent document, but put fing date cited in the application cited for other reason	blished on, or n s		

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 12 5396

This armsx lists the patent family members relating to the patent documents clied in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way flable for these particulars which are merely given for the purpose of information.

20-10-2003

Patent docume cited in search re		Publication date		Patent family member(s)	Publication date
EP 0847739	A	17-06-1998	JP	3184104 B2	09-07-2001
2. 0000	••	.,	JP	10127689 A	19-05-1998
			CN	1183946 A	10-06-1998
		•	DE	69713474 D1	25-07-2002
			DE.	69713474 T2	27-02-2003
			EP	0847739 A2	17-06-1998
			SG	70039 A1	25-01-2000
			TW	483325 Y	01-04-2002
			ÜŜ	5858012 A	12-01-1999
WO 9108725	A	27-06-1991	AU	657902 B2 ⁻	30-03-1995
			AU	6907291 A	18-07-1991
	•		BR	9007923 A	17-11-1992
			CA	2072630 A1	21-06-1991
•			CN	1054711 A ,B	25-09-1991
			CN	1054531 A ,B	18-09-1991
			EG	18966 A	30-10-1994
		•	EP	0506745 A1	07-10-1992
			FI	922313 A	21-05-1992
			ΙE	904631 A1	17-07-1991
			JP	5502177 T	22-04-1993
			KR	221391 B1	15-09-1999
			NZ	236552 A	26 - 09-1995
			PT	96299 A ,B	30-09-1991
			SG	54167 A1	16-11-1998
			TR	27514 A	07-06-1995
			US	H1440 H .	02-05-1995
		: #=	WO	9108725 A1	27-06-1991
EP 0452951	Α	23-10-1991	AU	648068 B2	14-04-1994
			AU ·	7437691 A	24-10-1991
			CA	2040578 A1	20-10-1991
		•	DE	59106836 D1	14-12-1995
			EP	0452951 A1	23-10-1991
			68	2245149 A ,B	02-01-1992
			KR 	111421 Y1	16-12-1997
WO 9733815	A	18-09-1997	AU	2049197 A	01-10-1997
			CZ	9802898 A3	15-09-1999
			DE	69703937 D1	22-02-2001
			DE	69703937 T2	21-06-2001
			ΕP	0938437 A1	01-09-1999
			EP	0947446 A1	06-10-1999
			JP	2001501557 T	06-02-2001
			PL	328794 A1	15-02-1999
			SE	9600996 A	16-09-1997

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 01 12 5396

This annex itsis the patent family membersrelating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-10-2003

	Patent documer cited in search rep	nt port	Publication date		Patent fan member(nily 6)	Publication date
W	9733815	A		WO SK ZA	9733815 125298 9702013	A3	18-09-1997 12-07-1999 17-09-1997
			. •		,		
		•					
				-			
					·		
			e Official Journal of the				
mor	e details about this a	annex : see	Official Journal of the	European P	atent Office. No	12/82	